

## INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/003302
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A. CLASSIFICATION OF SUBJECT MATTER					
IPC 7	B01J23/28	B01J23/30	C07C51/225	C07C51/25	C07C5/48

C07C67/05

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, COMPENDEX, INSPEC, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 294 846 A (UNION CARBIDE CORP) 14 December 1988 (1988-12-14)	1-37
Y	page 3, line 55 – page 4, line 21; examples 23,24	38-42
X	WO 03/033138 A (ELLIS BRIAN ; BP CHEM INT LTD (GB)) 24 April 2003 (2003-04-24) cited in the application	1-42
Y	claims 1,4; examples B,C page 4, line 29 – page 5, line 21	38-42
X	US 2003/088118 A1 (KOMADA SATORU ET AL) 8 May 2003 (2003-05-08) claims 1,4 paragraph '0298! – paragraph '0304! examples 2,3,14,15	1-16, 18-27
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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\*&\* document member of the same patent family

Date of the actual completion of the international search

9 September 2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 524 236 A (MCCAIN JAMES H) 18 June 1985 (1985-06-18) column 1, line 43 - line 46 column 3, line 15 - line 46 column 5, line 28 - line 31 claim 1; examples 1,9 -----	1-4, 6-37
Y		38-42

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/003302

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 0294846	A 14-12-1988	AU 612368 B2 AU 1758888 A CA 1305180 C EP 0294846 A2 JP 1063541 A ZA 8804182 A		11-07-1991 15-12-1988 14-07-1992 14-12-1988 09-03-1989 22-02-1989
WO 03033138	A 24-04-2003	CA 2460030 A1 EP 1439907 A1 WO 03033138 A1		24-04-2003 28-07-2004 24-04-2003
US 2003088118	A1 08-05-2003	CN 1419473 T DE 10195967 T0 WO 0196016 A1		21-05-2003 22-05-2003 20-12-2001
US 4524236	A 18-06-1985	AU 587981 B2 AU 4428885 A BR 8503080 A CA 1229351 A1 CN 85105406 A DE 3562225 D1 EP 0167109 A2 JP 1686453 C JP 3054927 B JP 61015849 A MX 167427 B NO 852592 A ,B, YU 108185 A1 ZA 8504882 A		07-09-1989 02-01-1986 11-03-1986 17-11-1987 14-01-1987 26-05-1988 08-01-1986 11-08-1992 21-08-1991 23-01-1986 22-03-1993 30-12-1985 31-10-1987 26-02-1986